

Figure 1

CLUSTAL W(1.4) multiple sequence alignment of
FOX C2 RT (SEQ ID NO:1) and FOX C3 RT (SEQ ID NO:2)

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FOX C2 RT  MNQISKNDSLDVLQDEMGQKKTFESERKSLSGWDYFKSLGSIGRLPHFSRGIELREVKKA 60
*****.*****
FOX C3 RT  MNQISKNDSLDVLQDEIGQKKTFESERKSSSGWDYFKSLGSIGRLPHFNRMELKEVKRA 60

FOX C2 RT  NRYLAFQEQRIVSAIEAGEIRKAVLVWLCMLKVSRSYQILLFNRVCKGWYWRWSTARVEE 120
*****.***.*
FOX C3 RT  NRYLAFQEKRIVTAVEQGEIRKAVLVWLCMLKISRSYQILLFNRVCKGWYWRWSSARVEE 120

FOX C2 RT  IIFGAMNKMRSWDMKLLIHRFYILKKNKGMRPIGAPNYESRMISKALTDMLYSITEKSRS 180
*****.*****
FOX C3 RT  VIFGAMNKMRAWDMKLLIHRFYILKKNKGMRPIGAPNYESRMISKALTDLLYTVTEKSRS 180

FOX C2 RT  AEQHGYMKKRGAWSAILECLSKLKEGYAGYFDLKSFFNTVEPFIYFRKLEEVDKKLTKL 240
*****
FOX C3 RT  AEQHGYMKKRGAWSAILECLSKLKEGYAGYFDLKSFFNTVEPFIYFRKLEEVDKKLTKV 240

FOX C2 RT  ISNVIKIEYRFSELLPESELNPKANRKNTLERTGVPQGLSLSPLLSTWALEYYGRPENL 300
*****.*****
FOX C3 RT  ISNVIKIEYRFTELLPESELNPKGKRKNTLVRTGVPQGLSLSPLLSTWALEYYGRPENL 300

FOX C2 RT  IMYADDGIYFFKHNISKFTRWIERMGRAGIEISPEKSGSLTPVFKFCGVTIDQPKRLVTY 360
*****.*****
FOX C3 RT  IMYADDGIYFFRHNISKFTRWLERMSRAGIEIAPEKSGSLKPVFKFCGVEIDQVKRLVTY 360

FOX C2 RT  EGQSVSWDNPELEKWLKSINNLYTKKEPEWSWTVNGESFITKRKLNLTWMEIVKVYWFR 420
.*****.*
FOX C3 RT  DKQSVSWDNPDLPEWLKSIHNLGYTKKEPEWSWTVDQNAFITKRNLNITWMETLKVYWFR 420

FOX C2 RT  IIHGKMWNGYTVFLASGWRILDIFGSSSWACNELLMEVKRRREELESIKTFGLEKAIEYEA 480
*.*****.*****.*****.*
FOX C3 RT  IVEGKMWNGYTVFLTSGWRVLDIFGSSSWSCNELLKIIKERKNELESIAFGLEKAIEYEA 480

FOX C2 RT  FSYAPVRKGSYRRHYNNGAQTANKQEYWEIMQFHNLRQQLRAIE 527
*****
FOX C3 RT  FSYAPVRKGSYRRHYNNGAPKTVNKQEYWEIMEFHNLRQQLRAIE 527

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Figure 2

	<u>MN-pFOXC-RT</u>						<u>MMLV-RT</u>			
RNA:-	+	+	+	+	+		+	+	+	+
Oligo:-	-	-	+	+			-	-	+	+
RNase:-	-	+	-	+	M		-	+	-	+

168 → 

105 → 

88 → 

78 → 

1 2 3 4 5 6 7 8 9 10

Figure 3

A

	<u>dA*</u>		
	—————		3R*
+ dCGT		dCT	
+		ddT ddG	

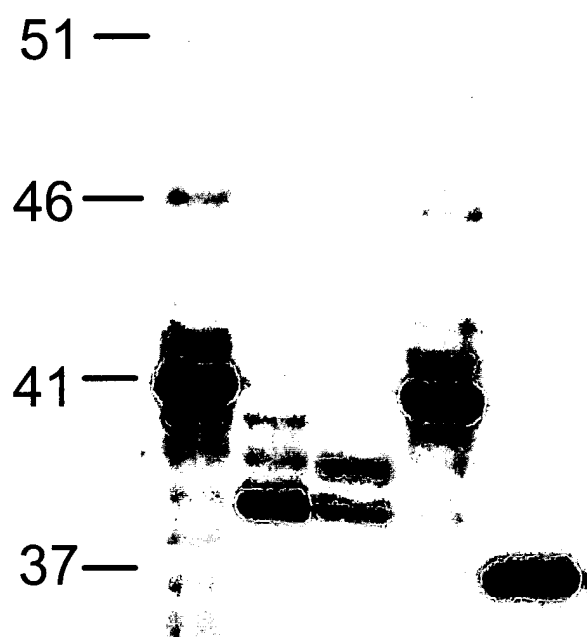


Figure 4

B

3R oligo (37 nt)

3'	GGTTAATCAGATCTAGATTAGATTAGATGTACCTAGG	5'	
5'	: : : : :		
	GGATCCATGTAGATTAGATTAGATCTAGACTAATTGGatcc		
	GGATCCATGTAGATTAGATTAGATCTAGACTAATTGga		
	GGATCCATGTAGATTAGATTAGATCTAGACTAATTGGat		
	GGATCCATGTAGATTAGATTAGATCTAGACTAATTGGatcc		
3'	GGTTAATCAGATCTAGATTAGATTAGATGTACCTAGG	5'	
5'	: : : : : : :		
	GGATCCATGTAGATTAGATTAGATCTAGACTAATTGGcatggatcc		
	GGATCCATGTAGATTAGATTAGATCTAGACTAATTGG		
	GGATCCATGTAGATTAGATTAGATCTAGACTAATTGG		
	GGATCCATGTAGATTAGATTAGATCTAGACTAATTGGcatg		
	GGTTAATC-AGATCTAGATTAGATTAGATGTACCTAGG	5'	
	: : : : : : :		
	GGATCCATGTAGATTAGATTAGATCTAGA-CTAATTGGatctacatggatcc		
	GGATCCATGTAGATTAGATTAGATCTAGA-CTAATTGga		
	GGATCCATGTAGATTAGATTAGATCTAGA-CTAATTGGat		
	GGATCCATGTAGATTAGATTAGATCTAGA-CTAATTGGatcatcg		

Nts in Rx	(Size)
dA* + dCGT	(41)
dA*	(38)
dA* + ddT	(39)
dA* + dCT + ddG	(41)
dA* + dCGT	(46)
dA*	(-)
dA* + ddT	(-)
dA* + dCT + ddG	(41)
dA* + dCGT	(51)
dA*	(38)
dA* + ddT	(39)
dA* + dCT + ddG	(46)

Figure 4

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Figure 5

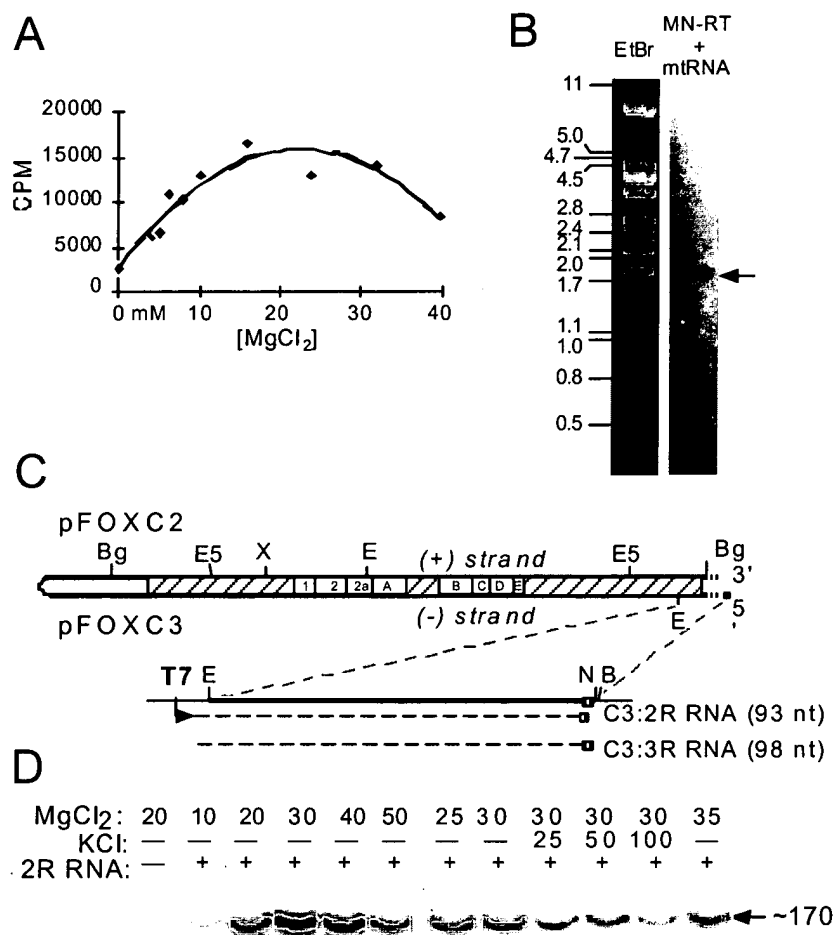


Figure 6

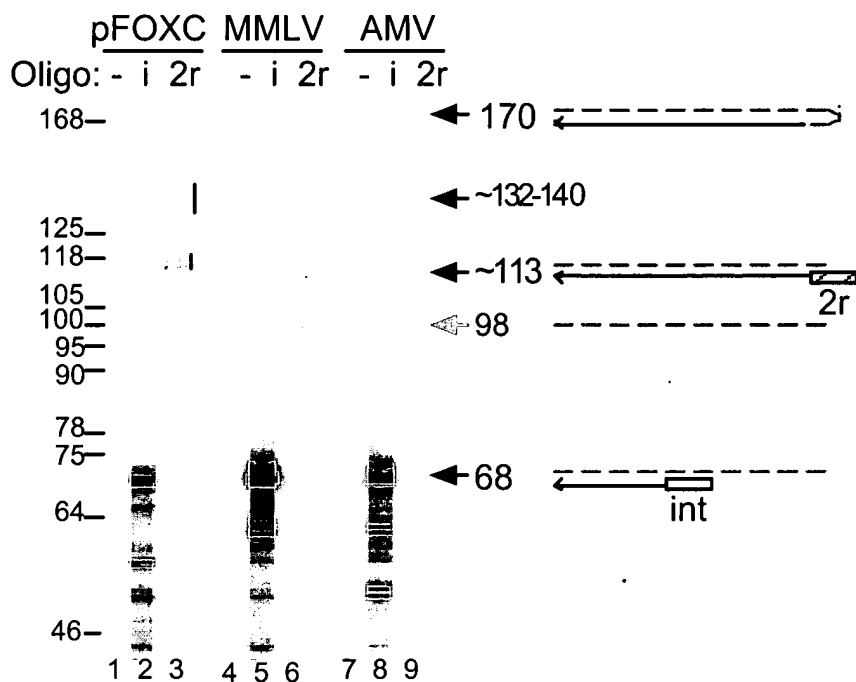
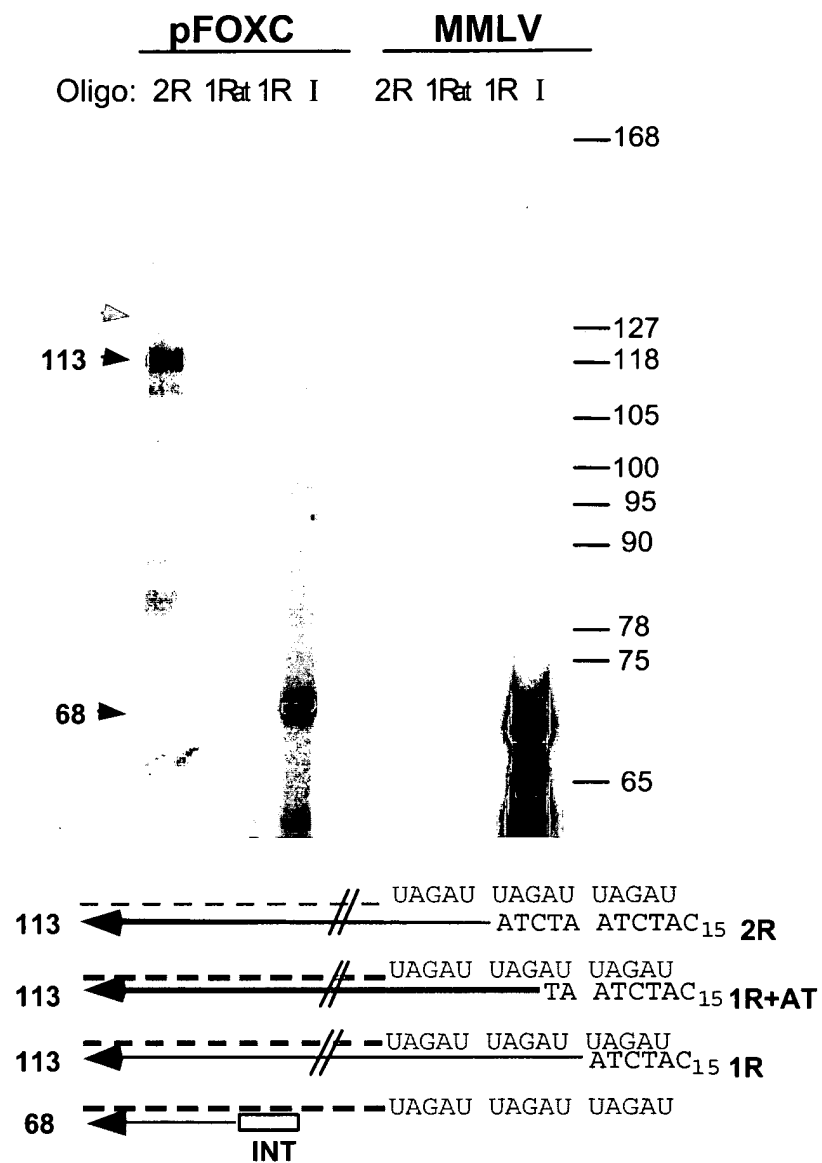


Figure 7



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Figure 8

